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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/639,763	08/15/2000	Atsushi Horiike	1046.1218 (JDH)	4059
21171	7590 07/28/2005		EXAMINER	
STAAS & HALSEY LLP			NGUYEN, KIMBINH T	
SUITE 700 1201 NEW YORK AVENUE, N.W.			ART UNIT	PAPER NUMBER
WASHINGT	ON, DC 20005		2671	
			DATE MAILED: 07/28/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/639,763	HORIIKE, ATSUSHI			
	Office Action Summary	Examiner	Art Unit			
		Kimbinh T. Nguyen	2671			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication, period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period of the torephy within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nety filed s will be considered timety. the mailing date of this communication. O (35 U.S.C. § 133).			
Status						
1)⊠	1)⊠ Responsive to communication(s) filed on <u>25 April 2005</u> .					
2a)⊠	This action is FINAL . 2b) This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)⊠ 5)⊠	 Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 7.8 and 10 is/are allowed. Claim(s) 1-6,9,11-15 is/are rejected. Claim(s) is/are objected to. 					
Applicati	ion Papers					
9) The specification is objected to by the Examiner.						
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 1) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority ι	ınder 35 U.S.C. § 119					
12)[a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachmen	t(s)					
1) Notic	e of References Cited (PTO-892)	4) Interview Summary				
3) 🔲 Infori	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te atent Application (PTO-152)			

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DETAILED ACTION

- 1. This action is responsive to amendment filed 04/25/05.
- Claims 1-15 are pending in the application.
- 3. The objections of claims 4, 5 and 7 have been withdrawn according to the amendments.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claim 1, 2, 4-5, 9 and 11-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Sakai, U.S. Patent No. 5,828,575.

Claims 1, 2, 9, 1 1-13, Sakai discloses a solid editing method in a three-dimensional CAD system (column 3 lines 15-24 and column 5 lines 52-56), having a display screen (fig IB, #44) and a operation unit for operating basic configurations displayed on said display screen (column 5 lines 5-8), for completing a final-dimensional configuration by an operation of combining a plurality of basic configurations (fig 29A and column 69 lines 1-11), said method comprising: displaying, on said display screen, in-the-making configurations from a first basic configuration as a start configuration down to the final three-dimensional configuration (fig 29A); selecting one of the in-the-making configurations displayed (fig 30)... and setting as an edit target (column 71 lines

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8-16., operator's modification to bend sequence) the basic configuration finally combined with respect to the selected in-the-making configuration (column 71 lines 8-16).

Claim 4, Sakai discloses a readable-by-computer medium recorded with a program for indicating a computer to edit a three-dimensional configuration formed by sequentially combining basic configurations, said program comprising: displaying, on said display screen, in-the-making configurations from a first basic configuration as a start configuration down to the final three-dimensional configuration (fig 29A); selecting a first of the in-the-making configurations displayed (fig 30)., and setting as an edit target (column 71 lines 8-16, operator's modification to bend sequence) a basic configuration finally combined with respect to the first select in-the-making configuration (column 71 lines 8-16), wherein said selecting further includes selecting a second in-the-making configuration (fig 30, the second in-the-making configuration will be the one the this one is dragged before or after), and the program further comprises changing a combination sequence of the basic configuration set as the edit target with the selection of the first in-the-making configuration, to just posterior or just anterior to the second in-the-making configuration (fig 30).

Claim 5, Sakai discloses a readable-by-computer recording medium that provides instructions for completing a final three-dimensional configuration by an operation of combining a plurality of basic configurations, which, when executed by a computer, cause the computer to perform operations comprising: displaying, on a display screen, in-the-making configurations from a first basic configuration

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as a start configuration down to the final-dimensional configuration (fig 29A), wherein the three-dimensional configuration is stored in the form of element data representing the basic configurations (column 5 lines 1-65), and a sequence indicating data representing a combination sequence of plural items of element data (column 5 lines 45-60); selecting a first displayed in-the-making configuration (fig 30) and a second displayed in-the-making configuration (fig 30, the second in-the-making will be the one this is dragged before or after); setting as an edit target (column 71 lines 8-16; operator's modification to bend sequence) a basic configuration finally combined with respect to the selected first displayed in-the-making configuration (column 71 lines 8-16) and changing the combination sequence of the basic configuration set as the edit target with the selection of the first displayed in-the-making configuration (fig 30), to just posterior or just anterior to the second displayed in-the-making configuration (5g 30), and changing the sequence indicating data representing the combination sequence of plural items of element data (column 5 lines 45-60).

Claim 9, Sakai discloses wherein said program further comprises changing the edit target configuration (column 5 lines 45-60).

Claim 14, Sakai discloses receiving a designation of an edit method option from the user relating to the displayed sequence of the plurality of in-the-making CAD configurations (column 5 lines 45-60).

Claim 15, Sakai discloses receiving a designation of an edit operation pursuant to the designated edit method from the user (column 5 lines 45-60)., editing the designated three-dimensional CAD configuration via the displayed sequence of the

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plurality of in-the-making CAD configurations pursuant to the designated edit operation (column 5 lines 45-60); and displaying the edited three-dimensional CAD configuration (column 5 lines 45-60).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 3 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakai in view of Shimizu et al. U.S. Patent No. 5,497,452.

Claim 3, Sakai does not disclose wherein said program further comprises generating a sum of the basic configurations, a difference between the basic configurations, and a product of the basic configurations. This is disclosed in Shimizu et al in column 1 lines 11-20. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the added operations of Shimizu with the system of Sakai because to achieve the holes in the model as shown in fig 29A these types of operation would have been needed.

Claim 6, Sakai does not disclose wherein said program further comprises deleting the edit target basic configuration from the combination of the basic configuration forming the final three-dimensional configuration. This is disclosed in Shimizu et al in column 5 lines 65-70 and column 6 line 1.

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It would have been obvious to one of ordinary skill in the ad at the time the invention was made to have the added operations of Shimizu with the system of Sakai because this would make the editing part more flexible. If a part is deemed not to fit right then there would have to be a way to delete it.

Allowable Subject Matter

8. Claims 7, 8 and 10 are allowed.

Response to Arguments

9. Applicant's arguments filed 04/25/04 have been fully considered but they are not persuasive because the references show the limitations of the claims as explained in the Office Action. The invention related to a solid editing method and system in 3D CAD. Claim 1, Sakai teaches in fig. 30: selecting the in-the-making configurations displays; setting as an edit target, the basic configuration finally combined with the selected in-the-making configuration (col. 71, lines 8-16); Shimizu teaches: generating a sum, a difference, a product of the basic configurations (col. 1, lines 11-20); deleting the edit target basic configuration (col. 6, line 1). Therefore, the rejection of claims 1-6, 9 and 11-15 are maintained.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimbinh T. Nguyen whose telephone number is (571) 272-7644. The examiner can normally be reached on Monday to Thursday from 7:00 AM to 4:30 PM. The examiner can also be reached on alternate Friday from 7:00 AM to 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ulka Chauhan can be reached at (571) 272-7782. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

July 26, 2005

KIMBINHT. NGUYEN
PRIMARY EXAMINER